

CONTENTS

Volume 43 Number 1 1977

U. H. Brockmann, K. Eberlein, P. Hosumbek, H. Trageser, E. Maier-Reimer, H. K. Schöne, H. D. Junge The Development of a Natural Plankton Population in an Outdoor Tank with Nutrient-Poor Sea Water. I. Phytoplankton Succession	1	M. A. Daly, A. C. Mathieson The Effects of Sand Movement on Intertidal Sea- weeds and Selected Invertebrates at Bound Rock, New Hampshire, USA	45
P. J. Harrison, H. L. Conway, R. W. Holmes, C. O. Davis Marine Diatoms Grown in Chemostats under Silicate or Ammonium Limitation. III. Cellular Chemical Composition and Morphology of <i>Chaetoceros debilis</i> , <i>Skeletonema costatum</i> , and <i>Thalassiosira gravida</i>	19	C. J. Crossland, D. J. Barnes Calcification in the Staghorn Coral <i>Acropora acuminata</i> : Variations in Apparent Skeletal Incor- poration of Radioisotopes Due to Different Methods of Processing	57
H. L. Conway, P. J. Harrison Marine Diatoms Grown in Chemostats under Silicate or Ammonium Limitation. IV. Transient Response of <i>Chaetoceros debilis</i> , <i>Skeletonema costatum</i> , and <i>Thalassiosira gravida</i> to a Single Addition of the Limiting Nutrient	33	A. D. Ansell, L. Robb The Spiny Lobster <i>Palinurus elephas</i> in Scottish Waters	63
		T. J. Lawson Community Interactions and Zoogeography of the Indian Ocean Candaciidae (Copepoda: Calanoida)	71

Volume 43 Number 2 1977

M. G. MacLeod Effects of Salinity on Food Intake, Absorption and Conversion in the Rainbow Trout <i>Salmo gairdneri</i>	93	J. Mauchline, Y. Aizawa, T. Ishimaru, S. Nishida, R. Marumo Integumental Sensilla of Pelagic Decapod Crustaceans	149
M. G. MacLeod Effects of Salinity on Fasted Rainbow Trout, <i>Salmo gairdneri</i>	103	P. J. Cheung, G. D. Ruggieri, R. F. Nigrelli A New Method for Obtaining Barnacle Cement in the Liquid State for Polymerization Studies	157
A. Comparini, M. Rizzotti, E. Rodinò Genetic Control and Variability of Phosphoglucose Isomerase (PGI) in Eels from the Atlantic Ocean and the Mediterranean Sea	109	J. C. Rutherford Geographical Variation in Morphological and Electrophoretic Characters in the Holothurian <i>Cucumaria curata</i>	165
R. M. Love, J. Lavéty Wateriness of White Muscle: A Comparison between Cod (<i>Gadus morhua</i>) and Jelly Cat (<i>Lycichthys denticulatus</i>)	117	J. C. Rutherford Variation in Egg Numbers between Populations and between Years in the Holothurian <i>Cucumaria curata</i>	175
J. H. Tietjen Population Distribution and Structure of the Free- Living Nematodes of Long Island Sound	123	G. Ribi, R. Schärer, P. Ochsner Stomach Contents and Size-Frequency Distributions of Two Coexisting Sea Star Species, <i>Astropecten aranciatus</i> and <i>A. bispinosus</i> , with Reference to Competition	181
T. E. Bigford Effects of Oil on Behavioral Responses to Light, Pressure and Gravity in Larvae of the Rock Crab <i>Cancer irroratus</i>	137		

Volume 43 Number 3 1977

P. Bienfang, K. Gundersen Light Effects on Nutrient-Limited, Oceanic Primary Production	187	K. P. Sebens, K. DeRiemer Diel Cycles of Expansion and Contraction in Coral Reef Anthozoans	247
P. L. Jokiel, S. L. Coles Effects of Temperature on the Mortality and Growth of Hawaiian Reef Corals	201	R. T. Wright, N. M. Shah The Trophic Role of Glycolic Acid in Coastal Sea- water. II. Seasonal Changes in Concentration and Heterotrophic Use in Ipswich Bay, Massachusetts, USA	257
S. L. Coles, P. L. Jokiel Effects of Temperature on Photosynthesis and Respiration in Hermatypic Corals	209		
R. L. Wallis Some Aspects of the Thermal Tolerance of <i>Trichomya hirsuta</i> (Mollusca: Bivalvia) of Eastern Australia	217	R. Eisler Toxicity Evaluation of a Complex Metal Mixture to the Softshell Clam <i>Mya arenaria</i>	265
B. Santelices Water Movement and Seasonal Algal Growth in Hawaii	225	L. J. Saliba, M. G. Vella Effects of Mercury on the Behaviour and Oxygen Consumption of <i>Monodonta articulata</i>	277
F. J. Rokop Seasonal Reproduction of the Brachiopod <i>Frieleia</i> <i>halli</i> and the Scaphopod <i>Cadulus californicus</i> at Bathyal Depths in the Deep Sea	237	Corrigendum Notice	282

Volume 43 Number 4 1977

D. J. H. Phillips The Common Mussel <i>Mytilus edulis</i> as an Indicator of Trace Metals in Scandinavian Waters. I. Zinc and Cadmium	283	C. H. Peterson Competitive Organization of the Soft-Bottom Macrobenthic Communities of Southern California Lagoons	343
D. A. Nelson, A. Calabrese, J. R. MacInnes Mercury Stress on Juvenile Bay Scallops, <i>Argopecten</i> <i>irradians</i> , under Various Salinity-Temperature Regimes	293	G. Pantoustier, G. Prunus Cycle biologique de l'isopode <i>Jaera hopeana</i> dans les milieux marins et lagunaires du Nord-Est de la Tunisie. [Biological Cycle of the Isopod <i>Jaera</i> <i>hopeana</i> in the Marine and Lagoonal Environments of North-East Tunisia]	361
W. G. Harrison, J. M. Davies Nitrogen Cycling in a Marine Planktonic Food Chain: Nitrogen Fluxes through the Principal Components and the Effects of Adding Copper	299	T. Subramoniam Aspects of Sexual Biology of the Anomuran Crab <i>Emerita asiatica</i>	369
W. Admiraal Tolerance of Estuarine Benthic Diatoms to High Concentrations of Ammonia, Nitrite Ion, Nitrate Ion and Orthophosphate	307	C. C. Emig Un nouvel aspirateur sous-marin, à air comprimé. [A New Submarine Suction-Sampler, Using Com- pressed Air]	379
J. D. Allan, S. Richman, D. R. Heinle, R. Huff Grazing in Juvenile Stages of Some Estuarine Calanoid Copepods	317	B. G. Hatcher An Apparatus for Measuring Photosynthesis and Respiration of Intact Large Marine Algae and Com- parison of Results with Those from Experiments with Tissue Segments	381
E. D. Houde Food Concentration and Stocking Density Effects on Survival and Growth of Laboratory-Reared Larvae of Bay Anchovy <i>Anchoa mitchilli</i> and Lined Sole <i>Achirus lineatus</i>	333	Indexed in Current Contents	

